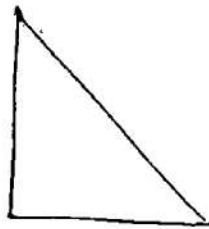


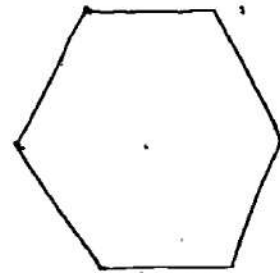
Q.1 Which of the following are closed curves? which of them are simple?



(i)



(ii)



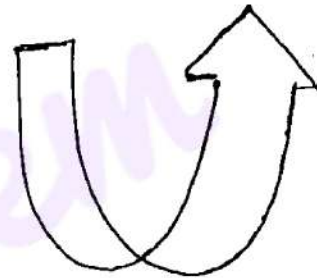
(iii)



(iv)



(v)



(vi)

Solution (i) simple curve

(ii) closed curve

(iii) closed curve

(iv) closed curve

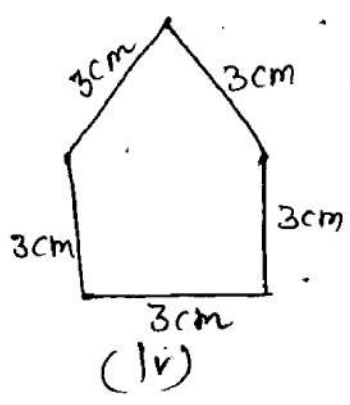
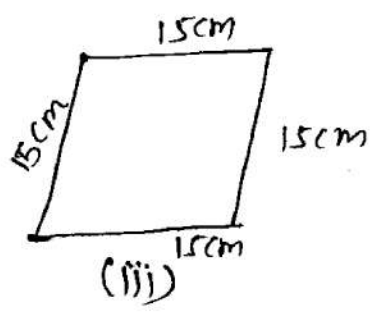
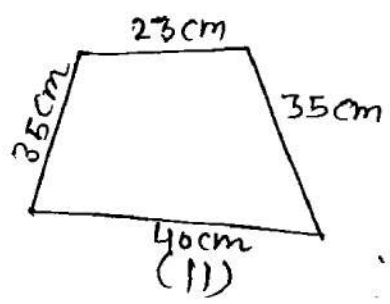
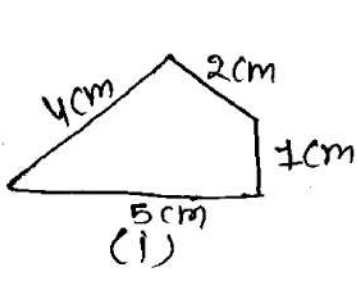
(v) simple curve

(vi) closed curve

Q.2 Define the Perimeter of a closed figure.

Solution: Perimeter of closed figure - The length of the boundary of a closed figure is known as its perimeter.

Q3 Find the Perimeter of each of the following shapes:



Solution

$$\begin{aligned} \text{(i) Perimeter of figure (i)} &= 4\text{cm} + 2\text{cm} + 5\text{cm} + 1\text{cm} \\ &= 12\text{cm} \end{aligned}$$

$$\begin{aligned} \text{Perimeter of figure (ii)} &= 35\text{cm} + 23\text{cm} + 35\text{cm} + 40\text{cm} \\ &= 133\text{cm} \end{aligned}$$

$$\begin{aligned} \text{Perimeter of figure (iii)} &= 15\text{cm} + 15\text{cm} + 15\text{cm} + 15\text{cm} \\ &= 60\text{cm} \end{aligned}$$

$$\begin{aligned} \text{Perimeter of figure (iv)} &= 3\text{cm} + 3\text{cm} + 3\text{cm} + 3\text{cm} + 3\text{cm} \\ &= 15\text{cm} \end{aligned}$$